

## Technical Product Datasheet “I Know” Analytical Quaternary Gradient UPLC System PDA Detector with inbuilt PC

### Supplier

### LCC Engineering & Trading GmbH

Steinbruchstr. 4, CH4322 Egerkingen, Switzerland

Tel1.: +41 623985271, Tel2: +41 792504602, Fax: +41 623985274

[WWW.Chromatographyshop.com](http://WWW.Chromatographyshop.com) , [Info@chromatographyshop.com](mailto:Info@chromatographyshop.com)

## “I Know” Automated Analytical Quaternary Gradient UPLC System producing 3 D Spectra with inbuilt PC



Article No. ASB05PCX

Highly cost effective and competitive automated analytical quaternary gradient HPLC system for use in research and industrial applications. This outstanding System comprises automated Autosampler with 2x48 vials, Gradient Box with Degasser including save storage space for mobile phase bottles, analytical quaternary HPLC pump, Column Oven with heating and cooling facilities and Analytical Diode Array Detector that measures at eight wavelengths simultaneously or performs full scan. This system has an inbuilt PC with installed Clarity Analytical Software. However, you must procure from your local supplier a PC Screen, a keyboard, and a LAN cable to connect both to the “I Know” System.

There are many highly skilled chromatographers working in Institutions and Industry. They know precisely what is required to work efficiently and effectively to solve their assigned problems for their employers. Unfortunately, there is also a growing trend to be told what tools Chromatographers can procure and from whom. It is not productivity that drives such decision it is control and power. The Life sciences and Health sector can only progress with growing innovation and productivity. When procuring instruments competent chromatographers make sure that they can do more than performing their job. “I know” is for such Chromatographers who know what to do.

In the past few year’s large mainstream chromatography suppliers argued that artificial intelligence will take over chromatography. This proposition forgets the fundamental reasons why we work and create progress. The human population is expanding, and everybody is trying to acquire knowledge, skills and building values for the employers. If we use machines to do this process, we create unemployment and we must finance the subsistence of those people that have been replace by machines.

## Technical Product Datasheet “I Know” Analytical Quaternary Gradient UPLC System PDA Detector with inbuilt PC

We discovered that chromatographers that maintain and repair their own tools have broader skills and better job stability. In the post Corona era work will be performed by more start-up companies and in remote places. Large equipment supplier issue maintenance contracts. We accept that many specialists want to work in their own environment. Thus, we will teach and assist our clients to maintain their instruments with original high-quality spare parts and with remote technologies.

Chromatography is not only method development. Chromatography is more an art than a science. It is also innovation and productivity improvement. Chromatographers that take care for their equipment are better innovators and more productive.

### **Components of the “I Know” Automated Analytical Quaternary Gradient UPLC System producing 3 D Spectra with inbuilt PC**

One Consensus Autosampler 3320 for 2x48 vials. Art. Nr. ARA03320

One Consensus Gradient box 2004B built-in high-efficiency vacuum degasser and four-way gradient valve. Up to four solvent lines may be degassed simultaneously by one unit. Four-way gradient valves are controlled from the Consensus Analytical Pump 2010. There is also a secure mobile phase bottles installation and an inbuilt PC. Art Nr. ABA0000X

*You will supply Screen, Keyboard and Ethernet (LAN) cable to connect to the System.*

We supply the inbuilt PC and relevant CLARITY CHROMATOGRAPHY SOFTWARE: This software fully controls the “I Know” System. The Clarity software package comprises (1 Clarity – Station for 1 instrument, Art Nr. AP000C50, 1 Clarity module for HPLC control, Art Nr. AP000A24, 1 Clarity SW module for AS control, Art Nr. AP000A26, 1 Module for PDA data Clarity (SW), Art Nr. AP000A29. Clarity software complies to CFR21GLP requirements

One Consensus Analytical Quaternary Gradient HPLC Pump 2010. Flow rate range is 0.01-10 ml/min and pressure limit 60 MPa. Unit software includes new learning algorithm for pulsation suppression and many testing and diagnostic functions. Art Nr ACF0000X

Consensus Column Oven 2080 with heating and cooling mechanism Art Nr. AOA0000X  
This column oven allows precise temperature stabilization in the range 0-80°C. A big compartment room can accommodate up to 3 columns with length up to 25 cm. Peltier technology offers the possibility of heating and cooling independently from room temperature.

One Consensus UV-VIS PDA Detector A2800, The Analytical Diode Array Detector measures at eight wavelengths simultaneously or performs full scan from 200 to 800 nm. It empowers you to see the spectra as 3 D pictures that you can cut in wavelength or time spectra. Noise level  $\pm 5 \times 10^{-6}$  AU. AD 05 analytical cell is included.

One Set Accessories for Analytical System. Art, Nr. ASA00180

*Attention: Chromatography Column is not included in our offer.*

From time to time the data sheets are adapted to the latest technical status. Always use the latest data sheets!  
Date: As of October, 2020